



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/602,987	06/25/2003	Anthony J. Wasilewski	A-8919	6302

5642 7590 10/01/2007
SCIENTIFIC-ATLANTA, INC.
INTELLECTUAL PROPERTY DEPARTMENT
5030 SUGARLOAF PARKWAY
LAWRENCEVILLE, GA 30044

EXAMINER

CHAI, LONGBIT

ART UNIT	PAPER NUMBER
----------	--------------

2131

NOTIFICATION DATE	DELIVERY MODE
-------------------	---------------

10/01/2007

ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

PTOmail@sciatl.com

Office Action Summary

Application No.

10/602,987

Applicant(s)

WASILEWSKI ET AL.

Examiner

Longbit Chai

Art Unit

2131

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 31 August 2007.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-19 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-19 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 25 June 2003 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

1. Presently, pending claims are 1 – 19.

Response to Arguments

2. Applicant asserts that: "Wasilewski reference of May 23, 1995 fails to disclose how the packets are selected for encryption (Remarks: Page 7)". Examiner respectfully disagrees with the following rationale.

- In view of Provisional application 60/054,575 filed on 8/1/1997 and Affidavits submitted on 3/14/2007, the earliest beneficial filing date for that particular amended claim limitation is 1 August 1997 because Examiner notes (a) the original disclosure of the provisional application does not exactly and clearly meet the amended claim limitation such as "using a packet identifier to select for encryption a portion of each of a plurality of digital streams from a transport stream", as recited in claim 1; and **instead**, the related disclosure from the provisional application indicates "A subcategory of information can thus be identified by the PID of its packets. As shown at output packets 707, the output from MUX704 is a sequence of individual packets from the various subcategories. Any part or all of MPEG-2 transport stream 701 may be encrypted" (see Provisional 60/054,575: Page 28 Line 25-28 & SPEC: Page 27 Line 16 – 26). However, **in view of Affidavits** submitted on 3/14/2007, the earliest beneficial filing date for that particular amended claim limitation is still considered as being valid on 1 August 1997.

3. Therefore, Applicant's arguments with respect to instant claims have been fully considered but are moot in view of the new ground(s) of rejection necessitated by Applicant's amendment.

Information Disclosure Statement

The information disclosure statement filed on 12/06/2005 fails to comply with the provisions of 37 CFR 1.97, 1.98 and MPEP § 609 because the inventor (applicant) name, application number, and some of the attorney docket numbers as indicated on the IDS are incorrect.

It has been placed in the application file, but the information referred to therein has not been considered as to the merits. Applicant is advised that the date of any re-submission of any item of information contained in this information disclosure statement or the submission of any missing element(s) will be the date of submission for purposes of determining compliance with the requirements based on the time of filing the statement, including all certification requirements for statements under 37 CFR 1.97(e). See MPEP § 609.05(a).

Double Patenting

The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. See *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) may be used to overcome an actual or provisional rejection based on a nonstatutory double

Art Unit: 2131

patenting ground provided the conflicting application or patent is shown to be commonly owned with this application. See 37 CFR 1.130(b).

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

Claims 1 and 13 are provisionally rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 1 and 13 of copending Application No. 10/602,986. Although the conflicting claims are not identical, they are not patentably distinct from each other because claims 1 and 13 of the instant application are envisioned by the claims of copending application that contain all the limitations of claims of the instant application because *the claim limitation of "the partially-encrypted bit stream" as recited in the instant application is equivalent to that of "the combined bit stream" as presented in the co-pending application* and as such are unpatentable for obvious-type double patenting.

This is a provisional obviousness-type double patenting rejection because the conflicting claims have not in fact been patented.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

A person shall be entitled to a patent unless –

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Art Unit: 2131

4. Claims 1 – 19 are rejected under 35 U.S.C. 103(a) as being unpatentable over Wasilewski (U.S. Patent 5,418,782), which is derived from its patent publication 102(b) date on 23 May 1995.

As per claim 1 and 13, Wasilewski teaches a method for providing a plurality of programs in a conditional access system (Wasilewski: Figure 1 and Column 1 Line 44 – 52), the method comprising the steps of:

Using a packet identifier to select for encryption a portion of each of a plurality of digital bit streams from a transport stream (Wasilewski: Figure 1 and Column 4 Line 65 – Column 5 Line 7 and Column 13 Line 65 – Column 14 Line 5: Examiner notes, it would have been obvious to a person of ordinary skill in the art at the time the invention was made to modify Wasilewski to accommodate using a packet identifier to select for partial encryption because Wasilewski teaches (a) one or more bit streams of audio, video and data streams can be selected for encryption (Wasilewski: Figure 1 and Column 4 Line 65 – Column 5 Line 7: i.e. partial encryption per audio, video and data streams from a transport stream) and besides, (b) each type of audio, video and data streams is uniquely assigned a packet ID (PID) (Wasilewski: Column 13 Line 65 – Column 14 Line 5) and as such it would have been obvious to a person of ordinary skill in the art at the time the invention was made using a packet identifier to select for encryption a digital bit stream from a plurality of digital bit streams using a packet identifier – at least this rejection is consistent with the disclosure of the original specification with the earliest filing date (i.e. Provisional 60/054,578: Page 28 Line 25-28 & SPEC: Page 27 Line 19 – 29) that indicates "A subcategory of information can thus be identified by the PID of its packets. As shown at output packets 707, the output from MUX704 is a sequence of individual packets from the various subcategories. Any part or all of MPEG-2 transport

Art Unit: 2131

stream 701 may be encrypted" (w/o specifically indicated using a packet identifier to select for partial encryption).

encrypting the selected portion of each of the plurality of digital bit streams (Wasilewski: Column 4 Line 65 – 67: one or more service components of a given basic service can be encrypted prior to transmission – i.e. partially encrypted);

combining the encrypted portion and the unencrypted portion with the transport stream (Wasilewski: Column 5 Line 1 – 7 and Column 4 Line 65 – 67: multiplexing is equivalent to combining); and

transmitting the combined stream (Wasilewski: Column 6 Line 17 – 20).

As per claim 2 and 14, Wasilewski teaches each of the plurality of digital bit streams includes a packet identifier, and wherein using a packet identifier to select for encryption a portion of each of the plurality of digital bit streams by identifying a predetermined packet identifier (Wasilewski: Column 13 Line 65 – Column 14 Line 5 and Column 4 Line 65 – 67: each packet ID is uniquely associated with a particular basic service (Video, Audio, Data) and any one or more service components of a given basic service can be encrypted prior to transmission (i.e. partially encrypted)).

As per claim 3 and 15, Wasilewski teaches each of the plurality of digital bit streams includes a packet identifier, and wherein using a packet identifier to select for encryption selects the plurality of digital bit streams by identifying a plurality of predetermined packet identifiers (Wasilewski: Column 13 Line 65 – Column 14 Line 5 and Column 4 Line 65 – 67: see the same rationale set forth in rejecting claim 2).

Art Unit: 2131

As per claim 4, Wasilewski teaches the selected plurality of digital bit streams are programs (Wasilewski: Column 13 Line 57 – 67 and Column 4 Line 65 – 67: each packet ID is uniquely associated with a particular program / basic service (Video, Audio, Data) and any one or more service components of a given program / basic service can be encrypted prior to transmission (i.e. partially encrypted)).

As per claim 5, Wasilewski teaches the selected plurality of digital bit streams are elementary digital bit streams (Wasilewski: Column 13 Line 57 – 67 and Column 4 Line 65 – 67: each packet ID is uniquely associated with a particular elementary digital bit stream / basic service (Video, Audio, Data) and any one or more service components of a given elementary digital bit stream / basic service can be encrypted prior to transmission (i.e. partially encrypted)).

As per claim 6, Wasilewski teaches a portion of the selected plurality of digital bit streams is encrypted according to the packet identifier associated with each of the plurality of digital bit streams (Wasilewski: Column 13 Line 65 – Column 14 Line 5 and Column 4 Line 65 – 67: each packet ID is uniquely associated with a particular basic service (Video, Audio, Data) and any one or more service components of a given basic service can be encrypted prior to transmission (i.e. partially encrypted) – i.e. any one of the video stream, the audio stream, and the data stream can be included and selected according to its packet ID).

As per claim 7, Wasilewski teaches the packet identifier is indicative of each of the plurality of digital bit streams being one of a video stream, an audio stream, and a data stream (Wasilewski: Column 13 Line 65 – Column 14 Line 5).

Art Unit: 2131

As per claim 8 and 16, Wasilewski teaches the encrypted portion includes at least one of the plurality of digital bit streams associated with the video stream (Wasilewski: Column 13 Line 65 – Column 14 Line 5 and Column 4 Line 65 – 67: each packet ID is uniquely associated with a particular basic service (Video, Audio, Data) and any one or more service components of a given basic service can be encrypted prior to transmission (i.e. partially encrypted) – i.e. any one of the video stream, the audio stream, and the data stream can be included and selected and accordingly video stream can be included and selected).

As per claim 9 and 17, Wasilewski teaches the encrypted portion includes at least one of the plurality of digital bit streams associated with the audio stream (Wasilewski: Column 13 Line 65 – Column 14 Line 5 and Column 4 Line 65 – 67: each packet ID is uniquely associated with a particular basic service (Video, Audio, Data) and any one or more service components of a given basic service can be encrypted prior to transmission (i.e. partially encrypted) – i.e. any one of the video stream, the audio stream, and the data stream can be included and selected and accordingly audio stream can be included and selected).

As per claim 10 and 18, Wasilewski teaches the encrypted portion includes at least one of the plurality of digital bit streams associated with the data stream (Wasilewski: Column 13 Line 65 – Column 14 Line 5 and Column 4 Line 65 – 67: each packet ID is uniquely associated with a particular basic service (Video, Audio, Data) and any one or more service components of a given basic service can be encrypted prior to transmission (i.e. partially encrypted) – i.e. any one of the video stream, the audio

Art Unit: 2131

stream, and the data stream can be included and selected and accordingly data stream can be included and selected).

As per claim 11 and 19, Wasilewski teaches the encrypted portion includes at least one of the plurality of digital bit streams associated with at least one of the video stream, the audio stream, and the data stream (Wasilewski: Column 13 Line 65 – Column 14 Line 5 and Column 4 Line 65 – 67: each packet ID is uniquely associated with a particular basic service (Video, Audio, Data) and any one or more service components of a given basic service can be encrypted prior to transmission (i.e. partially encrypted) – i.e. any one of the video stream, the audio stream, and the data stream can be included and selected).

As per claim 12, Wasilewski teaches the portion of the plurality of digital bit streams is encrypted according to a first level encryption method (Wasilewski: Column 4 Line 65 – 67).

Art Unit: 2131


Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire **THREE MONTHS** from the mailing date of this action. In the event a first reply is filed within **TWO MONTHS** of the mailing date of this final action and the advisory action is not mailed until after the end of the **THREE-MONTH** shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than **SIX MONTHS** from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Longbit Chai whose telephone number is 571-272-3788. The examiner can normally be reached on Monday-Friday 9:00am-5:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ayaz R. Sheikh can be reached on 571-272-3795. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.


SYED A. ZIA 12/25/11
PRIMARY EXAMINER

Art Unit: 2131

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.


LBC

Longbit Chai
Examiner
Art Unit 2131